## PF1260 Series

#### TO-126 Power Film Resistors







- TO-126 Housing
- Resistances from 0.01 to 51K Ohms
- Rated Power to 20 Watts
- Resistance Tolerances to ±0.05%
- TCR to ±5ppm/K
- Low Inductance ( <50nH )</li>
- Isolated Back Plate

## **SPECIFICATIONS**

Туре	Power Heatsink <sup>1</sup>	Rating Free Air <sup>2</sup>	Thermal Resistance	Resistand Min	ce Range <sup>3</sup>	Tolerances	Temperature Coefficients
PF1262	20W	1W	5.9K/W	0.01Ω	51ΚΩ	±1% ( R≥0.1Ω ) ±5%	±50ppm/°C ( R≥10Ω ) ±100ppm/°C ( 0.1Ω ≤ R < 10Ω ) ±250ppm/°C ( R < 0.1Ω )
PF1261	5W	0.5W	6.0K/W	0.1Ω	51ΚΩ	±0.1%, ±0.25% ( R≥5Ω ) ±0.5% ( R≥1Ω ), ±1%	±5ppm/°C(R≥1Ω) ±25ppm/°C(R<1Ω)

<sup>&</sup>lt;sup>1</sup> Power rating based on 25°C Flange Temperature

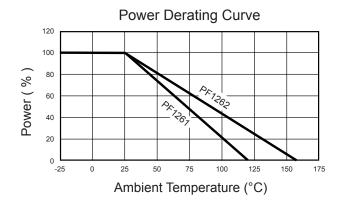
<sup>&</sup>lt;sup>3</sup> Consult Factory for Higher or Lower Values

Specification	Value				
Maximum Current	25A				
Temperature Range	-55°C to +155°C : PF1262 -55°C to +120°C : PF1261				
Dielectric Strength	2000 VAC				
Max. Operating Voltage	500 V				
Insulation Resistance	>1000 Meg-Ohm				
Environmental Performance	ΔR	Test Conditions			
Load Life	±1% + 0.05Ω	25°C / 90 min ON / 30 min OFF / 1000 hr			
Humidity Resistance	±1% + 0.05Ω	40°C / 90-95% RH / DC 0.1W / 1000 hr			
Temperature Cycle	±0.25% + 0.05Ω	-55°C for 30 min / +155°C for 30 min / 1000 hr			
Solder Heat	±0.1% + 0.05Ω	+350°C / 3s			
Vibration	±0.25% + 0.05Ω	IEC60068-2-6			

<sup>&</sup>lt;sup>2</sup> Power rating based on 25°C Ambient Temperature



### SPECIFICATIONS (continued)



Power Rating Notes -

The PF1260 Series Film Resistors must be attached to a suitable heatsink. The maximum internal resistor temperature is 155°C (120°C for the PF1261).

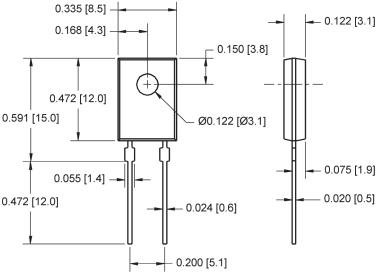
To specify an appropriate heatsink use the following formula:

$$R_{\theta H} = \frac{T_{MAX} - (P \times R_{\theta R}) - T_{A}}{P}$$

 ${\rm R}_{\rm \tiny OH}$  = Thermal Resistance of Heatsink ( K/W )

 $R_{\theta R}^{\Theta H}$  = Thermal Resistance of Resistor ( K/W )  $T_{MAX}^{OR}$  = Maximum Temperature of Resistor  $T_{A}$  = Ambient Temperature of Heatsink ( °C )

P = Power Through Resistor (W)



#### Mounting Notes -

The PF1260 Series Film Resistors must be attached to a suitable heatsink. Mount resistor using thermal grease to a clean / flat surface. Use a compression washer to provide 150 to 300 pounds (665 to 1330N) of mounting force. Torque mounting screw to 8 in-lbs (0.9 Nm).

Back plate is isolated from both pins.

# **Ordering Information**

Part Number - Resistance - Tolerance - TCR Example: PF1262 0.5 Ohm 1% 100ppm